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Planning Malaysia
Volume 15, Issue 1, 2017, Pages 139-150

Architectural heritage restoration of rumah datuk setia via mobile augmented reality restoration (Article)

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Abstract

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This paper focuses on Mobile Augmented Reality (MAR) for architectural heritage restoration as an alternative technique to visually restore the ruined rear house of Rumah Datuk Setia, Kuala Kangsar, Perak. The research consists of the development of Virtual Heritage (VH) based on the architectural heritage information of the ruined rear house, such as spatial organization, construction, ornamentation, materials; as well as "Augmented Reality" (AR) for architectural heritage restoration via mobile devices, such as smartphone and tablet. The objective is to develop Mobile Augmented Reality Restoration (MARR) of Rumah Datuk Setia, as a showcase of architectural conservation technique, for future restoration. The study reveals the process by integrating layers of architectural heritage information-VH, MAR and other enabling technologies as primary mediums for architectural heritage restoration. The research manifestation introduces a new technique of architectural heritage building restoration through MARR. It highlights necessary elements needed to be considered, and challenges, in developing the MARR, which can be applied for future architectural restorations. © 2017 by MIP.

Author keywords

Architectural heritage restoration Mobile augmented reality Virtual heritage

ISSN: 16756215
Source Type: Journal
Original language: English
Document Type: Article
Publisher: Malaysian Institute Of Planners

References (28)

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doi: 10.5194/isprsarchives-XL-5-W4-375-2015

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